

# Contents of Volume 29

No. 1, April 1956:	Page	No. 7, April 1957:	Page
The effect of letter width and spacing on night legibility of highway signs, by David Solomon.....	1	Financial planning for an expanded highway program, by G. P. St. Clair and Thomas R. Todd.....	153
New publication: Highway Statistics, 1954.....	11	Applications of electrical resistivity measurements to subsurface investigations, by R. Woodward Moore.....	163
Tomorrow's highways depend upon today's law, by David R. Levin.....	12	A study of factors related to urban travel, by William L. Mertz and Lamelle B. Hamner.....	170
Sawed joints in portland cement concrete pavements, progress and problems, by Edwin J. Coppage, Jr.....	13	Behavior of riveted connections in truss-type members, by E. Chesson, Jr., and W. H. Munse.....	175
The WASHO Road Test: a motion picture.....	15	Lost Production in Highway Construction: a motion picture. New publications: Annual Report of the Bureau of Public Roads, Fiscal Year 1956; Highway Statistics, 1955.....	176
<b>No. 2, June 1956:</b>			
Lives of highway surfaces—half century trends, by Gordon D. Gronberg and Nellie B. Blosser.....	17	<b>No. 8, June 1957:</b>	
The investment analysis approach to estimating highway needs, by Fred B. Farrell.....	25	Stopping ability of motor vehicles selected from the general traffic, by F. William Petring.....	177
A six-State classification study of engineering personnel, by Ralph S. Lewis.....	29	New publications: Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; First Progress Report of the Highway Cost Allocation Study.....	196
The shortage of highway engineers and how to overcome it, by Robley Winfrey.....	34	Errata.....	196
<b>No. 3, August 1956:</b>			
Road-user and property taxes on selected motor vehicles, 1956, by Edwin M. Cope and Laurence L. Liston.....	37	<b>No. 9, August 1957:</b>	
Table: State legal maximum limits of motor vehicle sizes and weights compared with AASHO standards.....	54	Driver behavior related to types and widths of shoulders on two-lane highways, by Asriel Taragin.....	197
Cost comparison of force account and contract construction on five secondary projects in North Carolina, by Fred B. Farrell and Morgan J. Kilpatrick.....	68	The AE-55 indicator used for determining air content of concrete, by William E. Grieb.....	206
<b>No. 4, October 1956:</b>			
Highway-user tax schedules recommended in State highway finance studies, by G. P. St. Clair and Hugo C. Duzan..	73	A study of traffic characteristics in suburban residential areas, by William L. Mertz.....	208
United States-Canadian border commercial traffic, by Daniel O'Flaherty.....	85	The behavior of red lead-iron oxide primers when exposed directly to weathering, by Woodrow J. Halstead.....	213
New publication: Specifications for Aerial Surveys and Mapping by Photogrammetric Methods for Highways, 1956: a reference guide outline.....	96	Trends of factors used in determining the 30th highest hourly traffic volumes, by William P. Walker.....	216
<b>No. 5, December 1956:</b>			
Traffic and travel trends, 1955, by Thomas B. Dimmick....	118	<b>No. 10, October 1957:</b>	
Experience in application of statistical method to traffic counting, by Boris B. Petroff.....	120	A comparison of methods used for measuring variations in loads transferred through vehicle tires to the road surface, by Richard C. Hopkins and Howard H. Boswell....	221
A laboratory test to evaluate the shape and surface texture of fine aggregate particles, by Harry M. Rex and Robert A. Peck.....	121	Tests of concrete containing portland blast-furnace slag cement, by William E. Grieb and George Werner.....	227
New Publication: Parking Guide for Cities.....	122	Relation between gross weights of motor trucks and their horsepower, by Carl C. Saal.....	233
<b>No. 6, February 1957:</b>			
Studies relating to the testing of fly ash for use in concrete, by Russell H. Brink and Woodrow J. Halstead.....	123	The efficiency of public transit operation in the utilization of city streets, by William P. Walker and Roy A. Flynt....	239
New publication: Standard Plans for Highway Bridge Superstructures (1956 edition).....	124	Highway Statistics, Summary to 1955, a new publication....	243
Use of fly ash in concrete, by Albert G. Timms and William E. Grieb.....	125	<b>No. 11, December 1957:</b>	
Labor usage in highway construction as influenced by improved equipment, by Edwin J. Coppage, Jr., and Edwin L. Stern.....	126	Crash-barrier tests on multiflora rose hedges, by Russell R. Skelton.....	245
<b>No. 7, April 1957:</b>			
<b>No. 8, June 1957:</b>			
<b>No. 9, August 1957:</b>			
<b>No. 10, October 1957:</b>			
<b>No. 11, December 1957:</b>			
<b>No. 12, February 1958:</b>			

## List of Authors

Page	Page	Page	Page				
Blosser, N. B.....	17	Grieb, W. E.....	142, 206, 227	Moore, R. W.....	163	Samson, Elizabeth.....	279
Boswell, H. H.....	221	Gronberg, G. D.....	17	Munse, W. H.....	175	Skelton, R. R.....	245
Brink, R. H.....	121	Halstead, W. J.....	121, 213	O'Flaherty, Daniel.....	85	Solomon, David.....	1
Chesson, E., Jr.....	175	Hamner, L. B.....	170	Peck, R. A.....	118	Stern, E. L.....	151
Cope, E. M.....	37	Hopkins, R. C.....	221	Petrini, F. W.....	177	Taragin, Asriel.....	197
Coppage, E. J., Jr.....	13, 151	Kilpatrick, M. J.....	68	Petroff, B. B.....	110	Timms, A. G.....	142
Dimmick, T. B.....	97, 253	Levin, D. R.....	12	Prisk, C. W.....	266	Todd, T. R.....	153
Duzan, H. C.....	73	Lewis, R. S.....	29	Rex, H. M.....	118	Walker, W. P.....	216, 239
Farrell, F. B.....	25, 68	Liston, L. L.....	37	Saal, C. C.....	233, 269	Werner, George.....	227
Flynt, R. A.....	239	Mertz, W. L.....	170, 208	St. Clair, G. P.....	73, 153	Winfrey, Robley.....	34

# Contents of Volume 29

No. 1, April 1956:	Page	No. 7, April 1957:	Page
The effect of letter width and spacing on night legibility of highway signs, by David Solomon.....	1	Financial planning for an expanded highway program, by G. P. St. Clair and Thomas R. Todd.....	153
New publication: Highway Statistics, 1954.....	11	Applications of electrical resistivity measurements to subsurface investigations, by R. Woodward Moore.....	163
Tomorrow's highways depend upon today's law, by David R. Levin.....	12	A study of factors related to urban travel, by William L. Mertz and Lamelle B. Hamner.....	170
Sawed joints in portland cement concrete pavements, progress and problems, by Edwin J. Coppage, Jr.....	13	Behavior of riveted connections in truss-type members, by E. Chesson, Jr., and W. H. Munse.....	175
The WASHO Road Test: a motion picture.....	15	Lost Production in Highway Construction: a motion picture. New publications: Annual Report of the Bureau of Public Roads, Fiscal Year 1956; Highway Statistics, 1955.....	176
<b>No. 2, June 1956:</b>			
Lives of highway surfaces—half century trends, by Gordon D. Gronberg and Nellie B. Blosser.....	17	<b>No. 8, June 1957:</b>	
The investment analysis approach to estimating highway needs, by Fred B. Farrell.....	25	Stopping ability of motor vehicles selected from the general traffic, by F. William Petring.....	177
A six-State classification study of engineering personnel, by Ralph S. Lewis.....	29	New publications: Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; First Progress Report of the Highway Cost Allocation Study.....	196
The shortage of highway engineers and how to overcome it, by Robley Winfrey.....	34	Errata.....	196
<b>No. 3, August 1956:</b>			
Road-user and property taxes on selected motor vehicles, 1956, by Edwin M. Cope and Laurence L. Liston.....	37	<b>No. 9, August 1957:</b>	
Table: State legal maximum limits of motor vehicle sizes and weights compared with AASHO standards.....	54	Driver behavior related to types and widths of shoulders on two-lane highways, by Asriel Taragin.....	197
Cost comparison of force account and contract construction on five secondary projects in North Carolina, by Fred B. Farrell and Morgan J. Kilpatrick.....	68	The AE-55 indicator used for determining air content of concrete, by William E. Grieb.....	206
<b>No. 4, October 1956:</b>			
Highway-user tax schedules recommended in State highway finance studies, by G. P. St. Clair and Hugo C. Duzan..	73	A study of traffic characteristics in suburban residential areas, by William L. Mertz.....	208
United States-Canadian border commercial traffic, by Daniel O'Flaherty.....	85	The behavior of red lead-iron oxide primers when exposed directly to weathering, by Woodrow J. Halstead.....	213
New publication: Specifications for Aerial Surveys and Mapping by Photogrammetric Methods for Highways, 1956: a reference guide outline.....	96	Trends of factors used in determining the 30th highest hourly traffic volumes, by William P. Walker.....	216
<b>No. 5, December 1956:</b>			
Traffic and travel trends, 1955, by Thomas B. Dimmick....	118	<b>No. 10, October 1957:</b>	
Experience in application of statistical method to traffic counting, by Boris B. Petroff.....	120	A comparison of methods used for measuring variations in loads transferred through vehicle tires to the road surface, by Richard C. Hopkins and Howard H. Boswell....	221
A laboratory test to evaluate the shape and surface texture of fine aggregate particles, by Harry M. Rex and Robert A. Peck.....	121	Tests of concrete containing portland blast-furnace slag cement, by William E. Grieb and George Werner.....	227
New Publication: Parking Guide for Cities.....	122	Relation between gross weights of motor trucks and their horsepower, by Carl C. Saal.....	233
<b>No. 6, February 1957:</b>			
Studies relating to the testing of fly ash for use in concrete, by Russell H. Brink and Woodrow J. Halstead.....	123	The efficiency of public transit operation in the utilization of city streets, by William P. Walker and Roy A. Flynt....	239
New publication: Standard Plans for Highway Bridge Superstructures (1956 edition).....	124	Highway Statistics, Summary to 1955, a new publication....	243
Use of fly ash in concrete, by Albert G. Timms and William E. Grieb.....	125	<b>No. 11, December 1957:</b>	
Labor usage in highway construction as influenced by improved equipment, by Edwin J. Coppage, Jr., and Edwin L. Stern.....	126	Crash-barrier tests on multiflora rose hedges, by Russell R. Skelton.....	245
<b>No. 7, April 1957:</b>			
<b>No. 8, June 1957:</b>			
<b>No. 9, August 1957:</b>			
<b>No. 10, October 1957:</b>			
<b>No. 11, December 1957:</b>			
<b>No. 12, February 1958:</b>			

## List of Authors

Page	Page	Page	Page
Blosser, N. B.....	17	Grieb, W. E.....	142, 206, 227
Boswell, H. H.....	221	Gronberg, G. D.....	17
Brink, R. H.....	121	Halstead, W. J.....	121, 213
Chesson, E., Jr.....	175	Hamner, L. B.....	170
Cope, E. M.....	37	Hopkins, R. C.....	221
Coppage, E. J., Jr.....	13, 151	Kilpatrick, M. J.....	68
Dimmick, T. B.....	97, 253	Levin, D. R.....	12
Duzan, H. C.....	73	Lewis, R. S.....	29
Farrell, F. B.....	25, 68	Liston, L. L.....	37
Flynt, R. A.....	239	Mertz, W. L.....	170, 208
<b>Moore, R. W.....</b>			
<b>Munse, W. H.....</b>			
<b>O'Flaherty, Daniel.....</b>			
<b>Peck, R. A.....</b>			
<b>Petric, F. W.....</b>			
<b>Petroff, B. B.....</b>			
<b>Prisk, C. W.....</b>			
<b>Rex, H. M.....</b>			
<b>Saal, C. C.....</b>			
<b>St. Clair, G. P.....</b>			
<b>Moore, R. W.....</b>			
<b>Munse, W. H.....</b>			
<b>O'Flaherty, Daniel.....</b>			
<b>Peck, R. A.....</b>			
<b>Petric, F. W.....</b>			
<b>Petroff, B. B.....</b>			
<b>Prisk, C. W.....</b>			
<b>Rex, H. M.....</b>			
<b>Saal, C. C.....</b>			
<b>St. Clair, G. P.....</b>			
<b>Samson, Elizabeth.....</b>			
<b>Skelton, R. R.....</b>			
<b>Solomon, David.....</b>			
<b>Stern, E. L.....</b>			
<b>Taragin, Asriel.....</b>			
<b>Timms, A. G.....</b>			
<b>Walker, W. P.....</b>			
<b>Werner, George.....</b>			
<b>Winfrey, Robley.....</b>			

ge  
53  
53  
70  
75  
76  
76  
77  
96  
96  
97  
96  
98  
13  
16  
21  
27  
33  
39  
43  
45  
53  
56  
56  
9  
9  
ge  
9  
5  
1  
1  
7  
2  
3  
9  
7  
4